

## WEST Search History

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DATE: Monday, October 03, 2005

<b>Hide?</b>	<b>Set Name</b>	<b>Query</b>	<b>Hit Count</b>
		<i>DB=EPAB; PLUR=NO; OP=ADJ</i>	
<input type="checkbox"/>	L6	EP-1439590-A2.did.	1
		<i>DB=PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD; PLUR=NO; OP=ADJ</i>	
<input type="checkbox"/>	L5	liquid crystal\$ with field effect\$ transistor\$ with polymer\$	50
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<input type="checkbox"/>	L3	liquid crystal\$ with fet	670
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END OF SEARCH HISTORY

AN 1999:575455 CAPLUS  
 DN 131:323145  
 ED Entered STN: 14 Sep 1999  
 TI Regioregular Di(2'-(thienyl))furan- and Di(2'-(thienyl))benzene-Based  
 Polymers: Steric and Heavy-Atom Effects on the Luminescence of Conjugated  
 Systems  
 AU Yang, Cheng; Abley, Michael; Holdcroft, Steven  
 CS Department of Chemistry, Simon Fraser University, Burnaby, BC, V5A 1S6,  
 Can.  
 SO Macromolecules (1999), 32(20), 6889-6891  
 CODEN: MAMOBX; ISSN: 0024-9297  
 PB American Chemical Society  
 DT Journal  
 LA English  
 CC 36-5 (Physical Properties of Synthetic High Polymers)  
 Section cross-reference(s): 73  
 AB A systematic investigation of photoluminescence quantum yields (solution and  
 solid state) of regiochem. controlled polymers of 1,4-di(2-  
 hexylthienyl)benzene, 2,5-di(2'-hexylthienyl)furan, and  
 2,5-di[2'-(3'-hexylthienyl)thiophene] is reported. The polymers were  
 prepared chemical oxidation of the corresponding monomers in the presence of  
 FeCl<sub>3</sub>  
 in CCl<sub>4</sub>. The UV-visible absorption and fluorescence spectra were measured  
 for both the monomers and polymers. Fluorescence data and structure of  
 solid polymers are discussed together with their suitability as materials  
 for light emitting diodes.  
 ST ~~regioregular dithienylfuran(dithienylbenzene) deriv. polymer luminescence~~  
 IT Polymer chains  
 (configuration; steric and heavy-atom effects on luminescence of  
 regioregular di(2'-(thienyl))furan- and di(2'-(thienyl))benzene-based  
 polymers)  
 IT Polymers, properties  
 RL: PRP (Properties)  
 (conjugated; steric and heavy-atom effects on luminescence of  
 regioregular di(2'-(thienyl))furan- and di(2'-(thienyl))benzene-based  
 polymers)  
 IT Phosphors  
 (electroluminescent; steric and heavy-atom effects on luminescence of  
 regioregular di(2'-(thienyl))furan- and di(2'-(thienyl))benzene-based  
 polymers)  
 IT Fluorescence  
 UV and visible spectra  
 (steric and heavy-atom effects on luminescence of regioregular  
 di(2'-(thienyl))furan- and di(2'-(thienyl))benzene-based polymers)  
 IT 135831-09-3 249575-17-5 249575-20-0 249575-21-1 249575-22-2  
 RL: PRP (Properties)  
 (UV spectra and fluorescence of)  
 IT 135831-08-2 249575-12-0 249575-13-1 249575-14-2 249575-15-3  
 RL: PRP (Properties)  
 (monomer; UV spectra and fluorescence of)  
 RE.CNT 19 THERE ARE 19 CITED REFERENCES AVAILABLE FOR THIS RECORD  
 RE  
 (1) Andreani, F; Polymer 1996, V37, P661 CAPLUS  
 (2) Burroughes, J; Nature 1990, V347, P539 CAPLUS  
 (3) Chen, F; J Mater Chem 1996, V6, P1763 CAPLUS  
 (4) Gill, R; Adv Mater 1994, V6, P132 CAPLUS  
 (5) Greenham, N; Chem Phys Lett 1995, V241, P89 CAPLUS  
 (6) Gronowitz, S; Thiophene and Its Derivatives Part IV 1991, P1 CAPLUS  
 (7) Herrema, J; Macromolecules 1995, V28, P8102 CAPLUS  
 (8) Magnani, L; Synth Met 1997, V84, P899 CAPLUS  
 (9) Ng; J Mater Chem 1999, V9, P381 CAPLUS  
 (10) Ng, S; Synth Met 1998, V92, P33 CAPLUS  
 (11) Reyftmann, J; Photochem Photobiol 1985, V41, P1 CAPLUS  
 (12) Reynolds, J; Macromolecules 1991, V24, P678 CAPLUS

- (13) Roncali, J; J Chem Rev 1992, V92, P711 CAPLUS
- (14) Saadeh, H; Macromolecules 1997, V30, P4608 CAPLUS
- (15) Scaiano, J; Photochem Photobiol 1990, V52, P655 CAPLUS
- (16) Tada, K; J Phys D: Appl Phys 1997, V30, P2063 CAPLUS
- (17) Wynberg, H; Synth Commun 1984, V14, P1 CAPLUS
- (18) Xu, B; Macromolecules 1993, V26, P4457 CAPLUS
- (19) Yan, M; Phys Rev Lett 1994, V73, P744 CAPLUS

IT 249575-22-2

RL: PRP (Properties)

(UV spectra and fluorescence of)

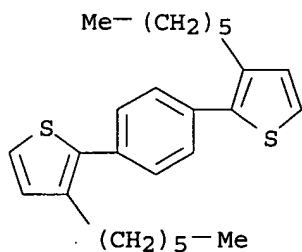
RN 249575-22-2 CAPLUS

CN Thiophene, 2,2'-(1,4-phenylene)bis[3-hexyl-, homopolymer (9CI) (CA INDEX NAME)

CM 1

CRN 249575-15-3

CMF C26 H34 S2



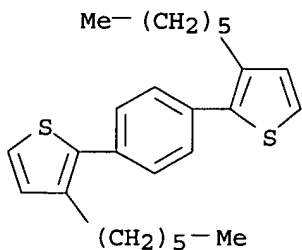
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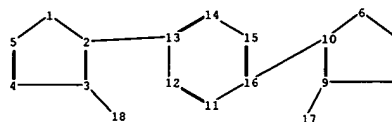
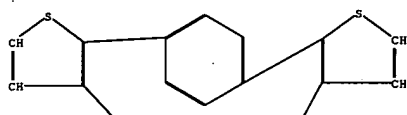
RL: PRP (Properties)

(monomer; UV spectra and fluorescence of)

RN 249575-15-3 CAPLUS

CN Thiophene, 2,2'-(1,4-phenylene)bis[3-hexyl- (9CI) (CA INDEX NAME)





chain nodes :

17 18

ring nodes :

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16

chain bonds :

2-13 3-18 9-17 10-16

ring bonds :

1-2 1-5 2-3 3-4 4-5 6-7 6-10 7-8 8-9 9-10 11-12 11-16 12-13  
13-14 14-15 15-16

exact/norm bonds :

1-2 1-5 2-3 3-4 4-5 6-7 6-10 7-8 8-9 9-10

exact bonds :

2-13 3-18 9-17 10-16

normalized bonds :

11-12 11-16 12-13 13-14 14-15 15-16

Match level :

1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom  
10:Atom 11:Atom 12:Atom 13:Atom 14:Atom 15:Atom 16:Atom 17:CLASS  
18:CLASS